

Carbon Intensity Limits in Construction

Implementation Examples for:
Embodied Carbon Limits On End Products

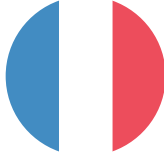
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Implementation examples of carbon intensity limits in construction

Examples of carbon intensity limits in construction

Jurisdiction		Policy description	Status	Sectors
France		RE2020 : sets limits on embodied carbon for various building types For instance, for single-family homes, the material production and construction-related emissions limit is 640kg CO ₂ /m ²) in 2022 and 415kg CO ₂ /m ² by 2031. For new apartment buildings it is 740kg CO ₂ /m ² in 2022, and 490kg CO ₂ /m ² by 2031.		Steel Aluminium Concrete
Denmark		National Strategy for Sustainable Construction : new buildings more than 1,000m ² are subject to a limit on combined operational and embodied emissions of 12kg CO ₂ e/m ² /y. The limit will tighten depending on progress made as a sector. By 2025, the limit is projected to average 7.1kg CO ₂ e/m ² per year, depending on building type.		
Netherlands		Millieu Prestatie Berekening : buildings must conduct a life cycle assessment and convert environmental impact metrics to a shadow price (e.g. €0.05/kg CO ₂ e), which allows for easy comparison across products. The cumulative price per floor area is limited to €1/m ² per year and will likely reduce to €0.5/m ² over time.		
USA		Regulations are currently set at state level, rather than at national level. For example, in CALGreen in California, new buildings over 100,000ft ² must conduct a 'cradle-to-grave' whole building lifecycle assessment. The building's global warming potential (GWP) must be at least 10% lower than a reference baseline building.		
European Union		Energy Performance of Buildings Directive : Requires EU member states to develop roadmaps for setting limit values on the lifecycle global warming potential (GWP) of new buildings from 2027 and set progressive targets from 2030.		

These are not the only examples of countries that have set such regulations. Further examples can be found [here](#) and include Finland, Norway and Sweden.

Covers ≥10% demand

 In place (and enforced)

 In place, but to be implemented

Examples of key enabling initiatives/detailed studies

- The **World Green Building Council** is a non-profit organisation with a global network of green building councils in more than 70 countries, aiming to catalyse the development of a sustainable built environment globally. Key initiatives include: [#BuildingLife](#), [Whole Life Carbon Policy Briefing](#), [Whole](#)
- [Life Carbon Roadmaps](#).
 - Many other examples of embodied carbon limits have been implemented at the sub-national level. For more details, see the [Carbon Leadership Forum's Policy Tracker](#).